a stator on an outer wall of said bearing housing, said stator including a stator core with a coil therearound;

a rotor including

(i) a frame having in a top surface thereof through-holes,

(ii) a shaft fixed to said frame, and

(iii) a rotor magnet fixed to said frame;

a cap of magnetic material facing said through-holes and spaced axially from said through-holes, said cap being spaced from an outer circumference of said metal and being axially spaced from an end face of said metal, and also being fixed at an inner circumference of said stator core; and

an attracting magnet positioned outside of said cap.

20. (Amended) The motor according to claim 13, wherein said cap is fixed at the inner circumference of said stator core by having a body portion of said cap be press-fitted to an inner wall of said stator core while an end portion of said cap is not press-fitted to said inner wall, with said end portion having an end face defining an inner diameter that is less than an inner diameter of said body portion, and with said end face being axially spaced from said frame by a distance that is less than a distance by which an end face of said attracting magnet is spaced from said frame.

26. (Amended) An apparatus comprising:

a housing; and

a motor mounted within said housing via a mounting base, wherein said motor includes

(i) a bracket defining said mounting base and a bearing housing by having said bearing housing and mounting base be unitarily formed with said bracket,

(ii) a metal fixed to an inner wall of said bearing housing, wherein said metal is impregnated with oil,

(iii) a stator on an outer wall of said bearing housing, said stator including a stator core with a coil therearound,

(iv) a rotor including

(a) a frame having in a top surface thereof through-holes,

(b) a shaft fixed to said frame, and

(c) a rotor magnet fixed to said frame, and

(v) a cap of magnetic material facing said through-holes and spaced axially from said through-holes, said cap being spaced from an outer circumference of said metal and being axially spaced from an end face of said metal, and also being fixed at an inner circumference of said stator core; and

an attracting magnet positioned outside of said cap.